

QP Code: 312019

Reg. No.....

**Third Year B.Sc. Medical Microbiology Supplementary Examinations**

**October 2021**

**Immunology, Immuno Chemistry and Serology I**

**(2016 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay**

**(2x15=30)**

1. What are the different types of immunity. Explain in detail about acquired immunity and its characteristic features.
2. Enumerate the types of antigen antibody reactions and describe in detail the agglutination reactions and its applications.

**Short Essay**

**(2x10=20)**

3. Discuss the factors contributing to microbial pathogenicity
4. Enumerate the various classes of immunoglobulins. Describe their properties and functions.

**Short Answers**

**(6x5=30)**

5. Monoclonal antibodies
6. Types of T cells and their functions
7. ELISA
8. Cytokines
9. B cell maturation
10. Alternate complement pathway

**Comment on**

**(10x2=20)**

11. Haptens
12. Toll like receptors
13. Null cells
14. Transfer factor
15. Prozone
16. Herd immunity
17. Flow cytometry
18. Super antigens
19. Carriers of infection
20. Immunochromatographic tests.

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